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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/602,962	06/24/2003	Ronald W. Jocher	67108-016; Jocher 11	1188
26096	7590	09/25/2006	EXAMINER	
CARLSON, GASKEY & OLDS, P.C. 400 WEST MAPLE ROAD SUITE 350 BIRMINGHAM, MI 48009			TRAN, TUAN A	
			ART UNIT	PAPER NUMBER
			2618	

DATE MAILED: 09/25/2006

Please find below and/or attached an Office communication concerning this application or proceeding.



<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/602,962	JOCHER, RONALD W.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Tuan A. Tran	2682	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 26 June 2006.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |



## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

1. Claims 1-18 are rejected under 35 U.S.C. 102(a) as being anticipated by Pennanen et al. (6,556,812).

Regarding claim 1, Pennanen discloses an apparatus and arrangements of using a wireless terminal antenna 306 for communication through a physical line 404 (See fig. 4), comprising: proximity coupling the wireless terminal antenna 306 with a strip line conductor 401 connected to the physical line 404, wherein the strip line conductor has a first physical configuration (made by metals like aluminium, brass or nickel-plated steel and the wireless terminal antenna has a second different physical configuration (the antenna of wireless terminal such as wireless phone, cellular phone is commonly known in the art to be made by copper) (See figs. 3-8 and col. 6 lines 20-28, col. 6 line 53 to col. 7 line 10, col. 8 lines 28-47).

Regarding claims 2-4, Pennanen discloses as cited in claim 1. Pennanen further discloses receiving a wireless transmitted signal from the terminal antenna 306 and transmitting the signal along the physical line 404 (See figs. 3-8 and col. 4 lines 58-64, col. 8 lines 44-47).



Regarding claim 5, Pennanen discloses as cited in claim 1. Pennanen further discloses placing the strip line conductor 401 adjacent a casing of the wireless terminal 301 (See figs. 6, 8).

Regarding claim 6, Pennanen discloses as cited in claim 1. Pennanen further discloses using an H-field coupling between the wireless terminal antenna 306 and the strip line conductor 401 (See fig. 6 and col. 6 line 53 to col. 7 line 10).

Regarding claims 7, 10 and 12, Pennanen discloses a device 400 (See fig. 8) for coupling a wireless terminal 301, having a housing and an antenna for receiving and transmitting wireless signals, to a physical line 404, comprising: a strip line conductor 401 adapted to be placed adjacent to the housing and near the antenna of the wireless terminal 301 to establish a proximity coupling between the conductor 401 and the antenna 306, wherein the strip line conductor has a first physical configuration (made by metals like aluminium, brass or nickel-plated steel and the wireless terminal antenna has a second different physical configuration (the antenna of wireless terminal such as wireless phone, cellular phone is commonly known in the art to be made by copper) (See figs. 3-8 and col. 6 line 53 to col. 7 line 10, col. 8 lines 28-47).

Regarding claims 8 and 11, Pennanen discloses as cited in claims 7 and 10. Pennanen further discloses a dielectric layer 402 for supporting the conductor 401 on one side and a ground plane 403 on another side of the dielectric layer 402 (See fig. 4 and col. 4 lines 44-58).



Regarding claim 9, Pennanen discloses as cited in claim 7. Pennanen further discloses a connector 405 electrically coupled to the strip line conductor 401 adapted to be connected to a physical conductive line 404 (See figs. 4-5).

Regarding claim 13, Pennanen discloses as cited in claim 12. Pennanen further discloses a holder for securing the strip line conductor 401 in a desired position against the housing (See figs. 4-6).

Regarding claim 14, Pennanen discloses as cited in claim 1. Pennanen further discloses the use of electromagnetic coupling (comprising H-field and E-field coupling) between the wireless terminal antenna and the strip line conductor (See col. 6 line 53 to col. 7 line 10), wherein the arrangement between the wireless terminal antenna and the strip line develops a near-field coupling wherein the expression near-field is widely known to mean that the H-portion dominates.

Claims 17-18 are rejected for the same reasons as set forth in claim 14.

Regarding claims 15-16, Pennanen discloses as cited in claims 7 and 10. Pennanen further discloses the use of electromagnetic coupling (comprising H-field and E-field coupling) between the wireless terminal antenna and the strip line conductor (See col. 6 line 53 to col. 7 line 10), wherein the arrangement between the wireless terminal antenna and the strip line develops a near-field coupling wherein the expression near-field is widely known to mean that the H-portion dominates.



***Response to Arguments***

Applicant's arguments filed 06/26/2006 have been fully considered but they are not persuasive.

The Applicant argued that the Pennanen reference does not anticipate any of the Applicant's claims. The reference states that the planar conductive antenna element 401 has the same physical configuration as the antenna element 306 (See Remark, page 5). The Examiner agrees with the Applicant that the strip line conductor 401 has the same shape with the antenna element 306. However, the limitation "physical configuration" is not narrow enough to prevent the strip line 401 being same shape with the antenna element 306 (same geometry configuration) and being made with different material (physical configuration based on material).

***Conclusion***

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.




Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan A. Tran whose telephone number is (571) 272-7858. The examiner can normally be reached on Mon-Fri, 10:00AM-6:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Anderson can be reached on (571) 272-4177. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

  
Tuan Tran

  
Matthew D. Anderson  
SPE - 2618